H. CLAIMS

Claim 4 of 10

These claims, and the specifications and drawings before, define the invention as a new human computer interaction process comprised of the following steps and procedures: new techniques to organize and use data histories **(3.34)** to place data in context **(A1) (B.32) (B3.7) [Fig. 1 to 10] (1.1) (1.23) (2.3) (3.1) (3.3) (3.6 and 3.7) (3.10) (3.12 and 3.13) (3.18) (3.20) (3.37) (6.8) (7.2) (7.8 to 7.12) (7.28) (7.31) (7.33) (7.41) (8.2 and 8.3) (8.18) (9.2) (9.4) (9.11) (10.2)**, which provides a new form for data arrangements **(A1) (B1.2) (B1.5) (B3.2) (B3.7) (D1) [Fig. 2 to 10] (1.12) (1.24) (2.1) (2.7) (3.3 and 3.4) (3.9) (3.12) (4.5 and 4.6) (4.14) (7.2) (7.4) (7.14)**, and a new format for data descriptions **(B3.7) (2.2) (2.8) (3.20) (3.24)** used in shared dynamic time dependent complex data collections **(B1.4) (1.9) (3.7) (6.7) (8.5) (9.8) (9.17)**. The invention is used to draw the geometry of knowledge as it changes over time **(A1) [Fig. 3]**. The pace and record of these changes is represented by mathematical configurations, or "knots of information". When the space around these knots changes, so does the interpretation of the information itself **(1.2)**, likewise, when the interpretation changes the patterned "space around" will be changed. Mapping this back and forth process **[Fig. 6, 7 and 8]** over time **[Fig. 2, 3 and 4]** is one way the invention is used to interpret, manage and selectively preserve records of human knowledge. Data and data collections are mapped, organized, searched and interpreted using sets of "knowledge patterns" also called "filters" and "templates" **(B1.5) [Fig. 10] (2.3) (3.35) (7.40)**. A second "opposite" and "related" set of "display patterns" **(C1) (3.21) (3.23) (3.27) (7.1 to 7.50) (8.3) (9.1 and 9.2) (9.5) (9.10) (9.21)** are used to subsequently transform and simplify each data arrangement even further to be displayed through an evolving automatic language of light and sound **(7.5) (9.2) (10.2)**, textures **[Fig. 7] (1.23)**, colors **(7.28 and 7.29) (7.39) (7.43) (7.48)** and forms **(A1) (B1.5) (B3.2 and B3.3) (C1) (D1) [Fig. 6] [Fig. 10] (1.24) (2.1) (3.4) (3.9) (3.11) (3.13) (3.20) (7.2) (7.38 and 7.39) (7.43) (9.6) (9.13 and 9.14)** that continually update and evolve into new generations of knowledge and display patterns. People's knowledge **(A1) (B1 to B3) (C) [Fig. 1 to 10] (7.1 to 7.49)**, awareness, abilities to perceive, measure and question meaning in data and data arrangements is used to change and develop these mathematical patterns over time. The invention applies mathematical topology, algebra and new pattern generation and recognition techniques to digital information context to see how ideas and concurrent or conflicting views **(Claim 4)** become entangled, can be separated from their background, recognized differently from different points of view, interrelated, and influenced over time **(1.1)**. The invention is used to discuss new versus old ideas, draw new conclusions **(B1.1 and B1.2) (B3.2) (7.1) (7.30) (7.47) (8.16)**, create new mathematical relationships and new conceptual associations **(1.4)** perceived and used in the following states: as scale free configurations connecting and placing data components in data arrangements **(B1.2) (D1) [Fig. 6,7,8 and 10] (1.2) (3.18) (3.28) (6.6 and 6.7) (7.12) (7.18) (7.33 and 7.34) (7.36) (7.39 and 7.40) (8.3) (8.14) (8.18) (8.20) (9.4 and 9.5) (9.15)**; as symbols that map the history of hierarchy

placements within each component's mathematical description **(B1.2) (B3.4) (D1) [Fig. 10] (2.1 and 2.2) (3.7) (3.10 to 3.14) (3.18) (3.20) (3.23 to 3.26) (3.31 to 3.33) (3.37 and 3.38) (4.4) (4.9) (4.17) (7.1) (7.32) (7.35) (7.39 and 7.40) (8.3) (8.18) (9.3) (10.2)**; and as multidimensional waveforms used to distribute, streamline and consolidate these patterns and forms over time **(A1) (B1.2) (B1.5) [Fig. 10] (D1) (1.24) (3.11) (3.26) (4.1 to 4.18) (7.4 and 7.5) (7.39) (9.3).** Context Driven Topologies remain mathematically the same and recognizable regardless of whether they are being used in the configuration, symbol or waveform state. Context Driven Topologies in the symbol state **(Section 3)** are used to trace **(B1.4) (B3.2) [Fig. 6] (1.4) (3.7) (3.10) (3.12) (3.26) (5.1) (7.14)** histories of previous context and associations originating deep in the background **(A1) (1.5) (7.32)** to gently "push" **(7.1) (7.26) (9.21)**, precisely align **(B1.4) (D1) [Fig. 8] (1.23) (3.3) (3.7) (3.31) (4.17) (9.5) (9.7) (10.2)** and lock the relative proportion **(A1) (B1) (B3) [Fig. 2, 6 and 7] (3.8) (3.27) (3.36) (4.14) (5.3) (6.7) (7.15) (7.34) (7.36)** of data and data arrangements into groups. Context Driven Topologies form a new kind of data collection composed of a new kind of objects and spaces used to map and understand complex data and data collections in both smaller groups **(A1) (B1.2) (B1.5) [Fig. 8] (D1) (1.4) (1.23) (2.3) (2.4 and 2.5) (2.7) (2.9 to 2.12) (3.2) (3.11) (3.15 to 3.17) (3.22) (3.28) (4.11 and 4.12) (5.4) (6.3) (6.7 and 6.8) (7.1) (7.6 and 7.7) (7.17) (7.31 to 7.33) (8.2 and 8.3) (8.6) (8.11 and 8.12) (8.19) (9.6) (9.11)** and larger overalls **(B3.6) (1.10 and 1.11) (2.3) (7.25 and 7.26) (7.28) (7.38) (9.1) (9.12)** than are currently available. Current data relationships, network topologies and data stores (even dynamic data stores) are typically in even arrangements with equal, practically interchangeable components geared for machine processing rather than the fluid, variable human imagination and investigation process. This is claimed by the inventor to be caused by an overdependence on electrical pulses. The inventions mathematical memory patterns are more suited to continuous patterned waveforms, similar to existing radio or cell phone technology, rather than electrical pulses. The invention is intended be independent of electricity and electrical pulses **(1.24) (Section 4) (Claim 2)**. Existing technology does not allow data or data relationships to vary, characterize over time, or appear as one whole **(A1) [Fig. 3 to 5] 91.3) (3.5) (3.10) (4.3) (4.6) (5.7) (7.28) (7.32 and 7.33) (7.39) (8.3) (8.11) 8.24) (9.6)**. The invention measures changes in mathematical patterns constructed for temporal reasons where aesthetics **(A1) (B3.5) [Fig. 6] (7.50) (8.13) (9.1)**, proportion **(B1.4) (B3.6)(7.38) (9.5) (10.6)**, "pace" or flow **(B3.2) [Fig. 2] (1.21) (3.11) (3.26) (4.12) (Section 6) (7.3) (7.5) (8.3)**, proximity **[Fig. 6] (3.10) (6.2) (6.3) (7.7) (7.12)** and density **(1.24)** become typical, comparable measurements. Context Driven Topologies reside in a boundless abstract cloud, also called a "stateless space" **[Fig. 1] (3.27) (4.7 to 4.9) (4.14) (4.18) 6.3) (6.9) (7.45) (8.1) (8.3) (8.11) (8.18) (9.1 and 9.2)** accessible to any number of users. Mathematically perfect copies **(9.4)** are handed down from generation to generation. The intention of these claims, drawings, specifications and patent is to protect the core principles of the inventor's idea, the inventor's techniques, processes and steps disclosed, and to have greater control over ways the invention and its intended purpose is implemented in the future through the following steps **(C) [Fig. 6] (1.25) (2.13) (3.38) (4.18) (6.10) (7.49) (8.26) (9.22) (10.1 to 10.14)**.

Claim 2 of 10

Because of the steps and processes throughout these drawings, specifications and Claim 1, Context Driven Topologies will initially be "powered" by use, similar to passing stories and songs across generations or propagating information across the internet **(B1.5) (B2.2) (D1) (1.21) (3.19) (8.17) (8.24)** therefore, the invention and the purpose of the invention, is independent of electricity **(1.24) (Claim 1)**. I further claim the inventions mathematical patterns, processes and uses for long term data curation and digital preservation **(9.1 to 9.22)** will also allow this organized and preserved knowledge to be independent of unstable media **(1.1 to 1.25) (Claim 2)** and changing natural and machine languages **(3.32)**. The intended life span of the knowledge and display patterns **(Claim 1)** interpreted and managed using the invented process is no less than 1,000 years **(7.12)**. It is critically important to know this claim, steps and processes include the human decision, evaluation and review process over time to selectively delete data and data arrangements that are not cohesive **(2.10) (3.9) (5.6) (7.28)**, valuable **(B3.7) [Fig. 5] (1.15) (2.6) (4.14) (7.2) (7.16) (7.19 and 7.20) (7.24 and 7.25) (7.33) (8.13) (10.10)**, true **(B2.2) (1.6 and 1.7) (2.4 to 2.6) (7.23) (7.47) (8.3)**, interesting **(1.5) (1.18) (7.3) (7.23) (8.13) (8.24) (9.9)**, attached to or sharing significant histories **(A1) [Fig. 6] (1.5) (1.21) (3.13) (3.25) (3.33) (4.18) (6.6) (7.11) (7.16) (7.32) (7.45) (8.3) (8.7) (8.9) (8.11) (9.15) (Claim 1)** with other data and data arrangements. Non-relevant, non-valuable, potentially misleading, out of date and incorrect information is removed from dynamic shared data stores through a shared continuous discussion and interpretation forum that uses a shared memory **(8.1 to 8.26)** area within the stateless space **(Claim 1)**. These actions and this process will streamline **(1.7)** complex data collections, automatically organize shared data stores **(1.7) (9.1)** and make complex collections easier for people to look through. I claim existing machine protocols and languages **(3.32)**, unstable media **(D1) [Fig. 6] (1.15 and 1.16) (2.5) (8.18) (9.2)** and the parade of machines currently accepted as an unfortunate, but irreconcilable, part of the information age **(1.25)** is unnecessarily divisive and detrimental to long term digital preservation and international research and communications across cultures and domains **(1.1 to 1.25)**. I further claim the year 2004 is the dawn of a new connected age **(10.14)** with incredible potential **(1.22)** where communications should not be hampered by electricity **(1.24) (8.17 and 8.18)**, media, changing machines **(7.3) (7.12) (8.3)** and different natural and machine languages **(3.32)**. The kind of data and data arrangements understood through Context Driven Topologies involve imagination **(B3.2) (1.13) (1.24 and 1.25) (2.10) (4.17) (7.27) (7.30) (9.2) (9.6)**, visualization **(B3.2) [Fig. 6] (1.21) (3.2) (3.23) (7.5) (7.8) (7.27) (7.44) (10.1) (10.8)**, and patterns that constructed in a place **(7.8)** where natural language is no longer useful, media is immaterial, and machine languages may be able to be changed to understand the expressions, reasons and investigations captured by the invention over time through the following steps **(1.25) (2.13) (3.38) (4.18) (6.10) (7.49) (8.26) (9.22) (10.1 to 10.14) (Claim 10)**.

Claim 3 of 10

Because of the steps and processes in Claims 1 and 2, I claim the invention will typically transform **(D1) (1.21) (3.21) (4.1 and 4.2) (4.4) (4.11) (4.17 and 4.18) (5.4 and 5.5) (7.1) (9.5) (9.21) (10.1) (Claims 1 and 2)** and present knowledge and knowledge objects differently than it was originally captured and recorded. The invention is a consistent method **(B3.2) (B3.6) (C1 to C7) (D1) (1.6) (2.9 and 2.10) (6.9) (7.12) (7.30) (7.44) (8.3) (9.4) (10.2) (10.11) (Claims 1 and 2)** for an unlimited **(7.37) (8.14)**, changing **(B1.4) (B1.5) (B3.2) [Fig. 6] (1.12) (1.20) (3.9) (4.1) (7.37) (7.40) (8.3) (9.2) (9.15)** series of users, media and machines to automatically **(D1) [Fig. 6] [Fig. 8] (1.4) (1.17) (2.1) (3.21) (4.13) (5.6) (7.7) (7.14) (7.26) (8.3) 98.12) (8.17) (9.4 and 9.5) (Claims 1 and 2)** and always defer to higher quality **(A1) (D1) (C7) [Fig. 6] (1.6) (1.11) (1.18) (3.27 and 3.28) (7.5) (7.37) (8.11) (9.4) (10.13)**, denser **(3.2) (7.26)**, more original **(B3.7) [Fig. 6] (1.19) (1.22) (2.3) (2.6 and 2.7) (2.10) (3.12) (3.24) (4.6) 4.12) (5.6) (7.9 and 7.10)) (7.37) (7.40) (7.42) (8.3) (8.18) (9.4) (9.8) (Claim 3)**, authentic **(2.2) (8.3) (8.24) (9.2) (9.14) (10.1)** original information held in a placeholder position **(2.6) (2.10) (3.14) (3.26) (7.21) (10.8)** accessed through the steps indicated in **(1.25) (2.13) (3.38) (4.18) (6.10) (7.49) (8.26) (9.22) (10.1 to 10.14)**. This claim includes priority addressing **(6.1 to 6.10) (7.7) (10.1)** and mapping to master recordings **(10.4)**; high resolution still and moving imagery **(7.5)**; partially interpreted **(B2.2) (B3.2) [Fig. 6] (1.23) (3.1) (7.18)** or raw results **(2.6) (3.24) (10.13)**; current locations **(9.13) (10.1) (10.6) (10.12)** of genuine events, objects and living beings; purely mathematical relationships and other ideas that can be represented, described, associated and derived with machines using the invented processes **(1.25) (2.13) (3.38) (4.18) (6.10) (7.49) (8.26) (9.22) (10.1 to 10.14)** to evaluate, maintain and preserve dynamic complex data collections over longer periods of time than a person, research group, entire field of study, or machine's lifetime.

> **Definition:** The word "Machine" as it is used throughout these claims and specifications is intended to mean a computer with a life expectancy of five to ten years - including an operating system or platform (ex. Mac or PC) that may be incompatible with other systems or platforms, various shared and specialized software with a life expectancy of one to three years, and an internet connection equal to current DSL or Broadband. The word "Machines" as it is used in these specifications is intended to mean advanced networks of machines that change and improve over one person, research group, or entire field of study's lifetime.

Claim 4 of 10

I claim the invention will eliminate redundant **(1.4) (3.12) (3.31) (4.15) (10.1)**, out of date, misleading and incorrect data and data arrangement from dynamic shared data stores by isolating and identifying non-original copies and non-meaningful variations within datasets using user defined similarity measures, also described throughout these specfications as "the same" **(B3.2) (D1) [Fig. 6] [Fig. 10] (1.4) (1.9) (2.3) (2.12) (3.3) (3.10) (3.12) (3.16) (3.18) (3.20) (3.30 and 3.31) (4.6) (4.18) (5.1 to 5.7) (7.1 and 7.2) (7.40) (8.2 and**

8.3) (8.20) (9.4) (9.11) (10.1) (10.6) (10.14) to automatically mask, eliminate and conceal excess information using these related patterns to map back and forth **[Fig. 8] (3.10) (3.21) (7.13) (7.22) (7.26) (7.30) (8.3) (8.22) (9.15) (10.6)** until the redundant, misleading or incorrect information, ideas and techniques **(9.1 to 9.22)** are exposed and removed in both the users current data arrangement and across more levels over longer periods of time **(1.1 to 4.18)** and **(7.1 to 7.50).** These templates, also called the "knowledge and display patterns" **(7.1 to 7.4) (Claim 1),** act as known "opposite" or "rotated" topologies to expose and combat specifically redundant, false or misleading information **(1.7) (1.15) (2.5) (7.18)** as defined by people who understand and use this information by realistically accommodating concurrent and conflicting interpretations **(D1) (1.7) (2.5) (7.30) (10.4)** and getting these data descriptions and data components to influence and eventually cancel each other over time. I claim that people who create and interpret complex data and data arrangements understand this knowledge and these knowledge objects the most clearly and therefore should be the ones who decide and define which data and data arrangements are interesting, correct, unique and worth preserving for further contemplation using new knowledge and new machines in the future. These steps and processes are also referred to throughout these specifications as "streamlining" **(1.4) (1.7) (10.6).** The invention will cause data and data relationships to characterize **(B3.2) (3.25),** automatically become more organized, cluster **(B3.2) (3.25) (5.3) (7.12)** in dynamic shared data stores and generally become more authenticated as it is evaluated from more points of view over longer periods of time. For readers familiar with problems of redundant, misleading, out of date or incorrect information, the implications of this claim are obvious.

Claim 5 of 10

Because of the steps, processes and applications outlined in **(Claims 1 to 4),** the invention has a real world value **(B3.7) (1.25) (10.1 to 10.14)** by clarifying the roles of human creative and conceptual abilities versus the computational skills of machines as summarized in **(1.25) (2.13) (3.38) (4.18) (6.10) (7.49) (8.26) (9.22).** The invention will help us **(1.23) (7.18) (9.4) (9.11) (9.21),** as individuals and a global society to decide **(2.8) (3.1) (6.6) (7.10) (7.35 and 7.36) (7.41) (7.44) (8.6)** which data and data arrangements are important, accurate and worth keeping **(3.12) (8.6) (8.20) (Claim 4).** New and conceptual associations are made by people and advanced networks of machines over time using Context Driven Topologies and the virtual "bridges" constructed following the steps in **(A1) (B1 to B3) (C1) (D1) [Fig. 1 to Fig 10] (1.1) (1.5) (1.10 and 1.11) (1.19 to 1.23) (2.2 and 2.3) (2.7) (3.5) (3.7) (3.11 and 3.12) (3.19 to 3.22) (3.24) (3.26) (3.28 o 3.31) (3.35) 94.14) (6.6 to 6.8) (7.1) (7.3 and 7.4) (7.9 and 7.10) (7.14 and 7.15) (7.18) (7.22) (7.26 and 7.27) (7.30 and 7.31) (7.33) (7.38 and 7.39) (7.49 and 7.50) (8.3 and 8.4) (8.9) (8.12) (8.20) (8.23 and 8.24) (9.1 and 9.2) (9.5 to (.8) (9.11) (9.13) (9.15 and 9.16) (10.5 and 10.6) (10.14)** and **(Claims 1 to 4)** These new bridges and the affect of the concurrent and conflicting viewpoints in **(Claim 4)** lead to a portrait of new ideas and changes to historical comprehension over time so people using the invention can also use

these historical ideas and changes to decipher, comprehend, unravel and solve new kinds of problems. The primary use for the invention today is to organize and interpret museum and library digitization **(1.6) (10.1)**; data generated by automated scientific experiments **(1.6) (10.4) (10.7 and 10.8)**; security **(8.3) (9.14) (10.6) (10.12)**; and to promote a clearer **(8.9)**, more meaningful understanding of each other, our environment, the natural world around us **(10.14)**, American **(2.5)**, global and future societies **(B3.5)**, and to stay current with the status of our individual and shared knowledge **(4.10) (4.14) (5.7) (7.21) (7.27) (7.30) (9.2)(Claim 4)**.

Claim 6 of 10

I claim the steps and processes enumerated summarized and enumerated in **(1.25) (2.13) (3.38) (4.18) (6.10) (7.49) (8.26) (9.22)** and **(Claims 1 to 5)** will show users of the invention new kinds of objects that exhibit new kinds of associations, expressed through a new kind of mathematics **(B2.2) (B3.1) (D1) [Fig. 6] [Fig. 10] (2.1) (3.31) (6.9) (7.12) (7.34) (8.24) (9.11) (10.7 and 10.8) (10.14)**, a new language of sounds and images **(7.1 to 7.50)** and other techniques. I claim the way that data and data arrangements are configured, described, identified, derived and extracted from dynamic shared data stores **[Fig. 1] [Fig. 2]** is dependent on the users knowledge, the era which they live in, the machines and networks they are using and they way each user or group of users is looking at this data and data arrangements **[Fig. 6] (1.6) (1.20) (3.2) (4.12) (4.15) (5.3) (5.6) (7.19) (7.23) (7.27) (7.30) (7.38) (9.7) (10.6)**. The invention is not an abstract idea or mere arrangement of data, because of the invention, we will understand more about fluidity, shapes, objects and spaces **[Fig. 5] (9.13)**, we will also understand more, and be forced into new ways to draw, different elements becoming mixed or separated **(10.8)**. By comparing shapes, objects, spaces, arrangements, sequences, theories and ideas we do not understand **(3.11) (Claim 5)** with ideas and knowledge we do understand, the invention will allow users to draw some parallels and achieve clarification **(3.15) (6.9) (8.5)** and increased understanding that is currently not possible without the invention. I further claim that because of this increased understanding, Context Driven Topologies generated by the invention and perpetuated through people's investigations will become like objects **(3.12)** people will form attachments to **(B3.7) (2.8)** and begin to prefer certain patterns and forms over others which will affect human perception **(B3.5) [Fig. 10] (3.31)**, aesthetics **(7.23) (7.34) (7.50)**, and performance requirements for our media and machines particularly as enumerated in **(Sections 6 to 10)** and **(Claim 10 of 10)** below.

Claim 7 of 10

I claim that because of the better organization, better descriptions and more realistic annotation system disclosed throughout these specifications and Claims 1 to 6 above, the invention is a better, more continuous **(A1) (1.24) (3.2) (3.4) (3.34) (4.1 to 4.3) (4.16) (7.28) (7.40) (7.49) (8.13) (9.3) (9.6)**, fluid form **(D1) (1.24) (10.7 and 10.8) (Claim 6)** of metadata **(B3.2) (2.3) (2.9) (7.17) (7.27) (10.2)** and mapping comprised of the steps summarized in **(C) [Fig. 6] (1.25) (2.13) (3.38) (4.18) (6.10) (7.49) (8.26) (9.22) (10.1 to 10.14)**. I

specifically claim that current metadata methods rely too heavily on text without providing mechanisms for translation **(B2.2) (B3.4) [Fig. 6] (5.6) (10.1) (10.2)**, cultural interpretation **(1.20) (7.25) (9.1)**, or change and variation in word meaning **(B3.4) (10.2)** over time. I claim the invention is a more reliable **(1.18) (2.5) (6.9) (7.18) (7.20) (9.2) (9.14)**, accurate **(A1) (1.18) (2.2) (2.4) (2.6) (3.12) (4.14) (5.1) (8.3) (8.18) (9.1) (9.9) (Claim 5)** and subtle **[Fig. 6] (10.2)** method to communicate **(B3.4) [Fig. 7] (2.1) (3.13) (9.2) (9.11)** at concrete and abstract **(B1.4) (B3.5) (C7) (D1) (3.5) (3.8) (3.19) (4.18) (7.28) (7.38) (7.44) (8.4) (9.10)** levels which will enable our shared designs, mathematics, studies, investigations, stories and curiosities to advance and be expressed in ways we could not have imagined before **(Claim 8)**.

Claim 8 of 10

I claim the invention will give machines something to measure that is closer to the way people think, imagine and work. These measurements are comprised of the techniques, process and steps specified in **(B3.7) (C1 to C7) [Fig. 6] (1.1) (1.19) (1.23) (2.2) (2.6) (2.9 and 2.10) (3.6) (3.13) (3.15) (3.27) (6.9) (7.1) (7.8) (7.16) (7.21) (7.26 and 7.27) (7.30 and 7.31) (7.44) (8.3) (8.23 and 8.24) (9.2) (9.4) (9.11) (9.15) (10.4) (10.6)**

Claim 9 of 10

All of the claims, specifications, drawing, descriptions and steps are interdependent and related. The purpose of these claims, specifications, drawings, descriptions and steps is to particularly point out and distinctly claim the invention as it compares to other existing and future inventions **(B1 to B3)**, and to protect the right to develop the inventions future technologies **(Claims 1 to 10)**. Each of these claims is directly related to mathematical operation steps of a process as disclosed in **(A1) (B1.4) (B1.5) (B2.2) (B3.1) (C1) (D1) [Fig. 3] [Fig. 6] [Fig. 7] [Fig. 8] [Fig. 10] (1.1) (1.4 and 1.5) (1.17) (1.20 and 1.21) (1.24) (2.1 to 2.3) (2.13) (3.2) (3.7) (3.10 and 3.11) (3.18) (3.20) (3.26) (3.31) (3.34) (4.5) (4.9) (4.11 to 4.13) (4.15) (4.18) (6.2) (6.4) (6.9) (7.1) (7.3) (7.12) (7.15 to 7.18) (7.25 and 7.26) (7.31) (7.33 and 7.34) (7.39) (7.42 to 7.44) (7.47 to 7.49) (8.2 and 8.3) (8.18) (8.24) (9.1 to 9.3) (9.6) (9.11 and 9.12) (9.20 and 9.21) (10.7 and 10.8) (10.10 and 10.11) (10.14)**. These written descriptions, claims and drawings are intended by the inventor to be an enabling and complete disclosure to protect this idea and process both in the United States and Internationally **(C1 to C7) [Fig. 6]**. The practical applications **(10.1 to 10.14) (Claims 1 to 10)** of the computer-related invention disclosed are statutory subject matters. The invention, specifications, drawings, descriptions and steps claimed herein are intended by the inventor to be fully consistent with the Freeman-Walter-Abele test; statutory subject matters under Section 101 of the Patent Act; and current understanding of United States and International laws including 35 U.S.C. 101; 35 U.S.C. 102; 35 U.S.C. 103; 35 U.S.C. 112 including the 2nd and 6th paragraphs; 35 U.S.C. 154 including section (d) Provisional Rights as applicable; and is intended by the inventor to be in compliance with every statutory requirement and criteria including any binding precedents of the United States Supreme Court, the U.S. Federal Circuit; the Federal

Circuit's predecessor courts; and international laws or courts not listed. The ideas, processes, and specific future technologies disclosed throughout these specifications and claims were conceived of **(B2)** and belong exclusively to the inventor **(C)**.

Claim 10 of 10

I claim the invention is a better form of search, organization and identification for data, data arrangements, advanced networks of machines and for people. I claim the invention will be useful to investigate, create, and manipulate new and old ideas and map knowledge and historical comprehension over time across cultures and domains, and not only claim the practical applications indicated in **(Claims 1 to 9)** and **(10.1 to 10.4),** but also claim that the invention in its current embodiment will prompt, inspire and enable additional techniques and future technologies to distribute, implement and expand the invention's usefulness through additional practical applications as indicated below in **(APPENDIX A)**. Tools, systems, and methods that may be claimed to have been prompted by the invention, its implementation and usefulness follow a mathematical and perceptual process summarized in **(1.25) (2.13) (3.38) (4.18) (6.10) (7.49) (8.26) (9.22)** that includes but is not limited to: measurement, evaluation, testing, authentication, calibration, analysis, interpretation, exploration, vision, generation, conversion, translation, transformation, logic, purification, error and consistency detection, tuning, classification, registry, identification, recognition, composition, consolidation, masking, similarity measures, redundancy elimination, error detection and correction, visualization, design, imaging, modeling, simulation, drawing, recording, processing, compression, decompression, distribution, cryptography, navigation, communications, transmission, signaling, preservation, and other research, educational, entertainment or business products and practices that use techniques discovered using the invention. As indicated in Section **(C)** and **[Fig. 6]**, future techniques and technologies associated with the invention will be developed: by the inventor; with formal research partners; and in cooperation with other inventors and/or their research partners identified by searching patents and existing inventions related to the future technology that has been prompted, necessitated or inspired by the invention. Especially because the forms and patterns generated, perpetuated and interpreted through the invention reside in a stateless, constantly updating space without electricity or a capturing media - it is possible existing and new inventions in the enumerated classes (including subclasses which are not listed) below originally served a different purpose, or the existing subject matters and inventions within these classifications were conceived of and made for reasons that may initially seem unrelated, but in fact, are related because the invention will give us new ways to understand, new ways to look, measure, connect, break apart, demonstrate and control data and data arrangements using virtual forms and patterns that people may not have found ways to control using 'real' patterns, forms, languages and processes.

APPENDIX A